

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) SDG F6AF4 Case 42764 Contract EPW11033 Region 6 DDTID 158696 SOW SOM01.2

Data Review Reports

Blanks

Blanks	BNA
BLB14	The following semivolatile samples have common contaminant concentrations reported less than 5x the CRQL. The associated method blank concentration is less than 5x the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.
	F6AF4, F6AG6, F6AM2
	Bis(2-ethylhexyl)phthalate F6AF4, F6AG6, F6AM2



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Data Review Reports

Continuing Calibration Verification

Continuing Calibration Verification	VOA_Low_Med
VC14	The following volatile samples are associated with a CCV with relative response factors (RRF50) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R. F6AF4, F6AG2, F6AG3, F6AG4, F6AG5, F6AG6, F6AG7, F6AK6, F6AK7, F6AL5, F6AL6, F6AL7, F6AL8, F6AL9, F6AM0, F6AM1, F6AM2, F6AM3, F6AM4, F6AM5, VBLK5Y, VBLKH5, VBLKJ5, VBLKL5, VBLKP5, VHBLKP5
	1,4-Dioxane VSTD0505Y, VSTD0505Z, VSTD050H5, VSTD050I5, VSTD050J5, VSTD050K5, VSTD050L5, VSTD050M5, VSTD050P5, VSTD050Q5
	F6AF4, F6AG2, F6AG3, F6AG4, F6AG5, F6AG6, F6AG7, F6AK6, F6AK7, F6AL5, F6AL6, F6AL7, F6AL8, F6AL9, F6AM0, F6AM1, F6AM2, F6AM3, F6AM4, F6AM5, VBLK5Y, VBLKH5, VBLKJ5, VBLKL5, VBLKP5, VHBLKP5
Continuing Calibration Verification	VOA_Low_Med
VC21	The following volatile samples are associated with a continuing calibration in which a DMC exceeded percent difference (%D) criteria. Detected and nondetected compounds are not qualified.
	F6AF4, VBLK5Y
	1,1-Dichloroethene-d2 VSTD0505Y
	F6AF4, VBLK5Y

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Data Review Reports

Continuing Calibration Verification

Continuing Calibration Verification	BNA
BC10	The following semivolatile samples are associated with an opening or closing CCV percent difference (%D) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F6AF4, F6AG2, F6AG3, F6AG4, F6AG4DL, F6AG5, F6AG5DL, F6AG6, F6AG7, F6AG7DL, F6AK6, F6AK7, F6AL5, F6AL6, F6AL7, F6AL8, F6AL9, F6AM0, F6AM1, F6AM2, F6AM3, F6AM4, F6AM5, SBLK4D, SBLK4T, SBLK6E
	Bis(2-chloroethyl)ether SSTD0204R, SSTD0204W, SSTD020D4
	Benzo(k)fluoranthene SSTD0204U
	2,4-Dinitrophenol SSTD0204S, SSTD0204U, SSTD0204X
	Hexachlorocyclopentadiene SSTD0204S, SSTD0204U, SSTD0204X
	Benzo(b)fluoranthene SSTD0204U
	4,6-Dinitro-2-methylphenol SSTD0204S, SSTD0204U, SSTD0204X
	Pentachlorophenol SSTD0204R, SSTD0204S, SSTD0204T, SSTD0206E
	F6AF4, F6AG2, F6AG3, F6AG4, F6AG4DL, F6AG5, F6AG5DL, F6AG6, F6AG7, F6AG7DL, F6AK6, F6AK7, F6AL5, F6AL6, F6AL7, F6AL8, F6AL9, F6AM0, F6AM1, F6AM2, F6AM3, F6AM4, F6AM5, SBLK4D, SBLK4T, SBLK6E
Continuing Calibration Verification	BNA
BC21	The following semivolatile samples are associated with a continuing calibration in which a surrogate/DMC exceeded percent difference (%D) criteria. Detected and nondetected compounds are not qualified.
	F6AF4, F6AG2, F6AG3, F6AG4, F6AG5, F6AG6, F6AG7, F6AK6, F6AK7, F6AL5, F6AL6, F6AL7, F6AL8, F6AL9, F6AM0, F6AM1, F6AM2, F6AM3, F6AM4, F6AM5, SBLK4D, SBLK4T
	2,4-Dichlorophenol-d3 SSTD020D4
	4,6-Dinitro-2-methylphenol-d2 SSTD0204S, SSTD0204U, SSTD0204X
	F6AF4, F6AG2, F6AG3, F6AG4, F6AG5, F6AG6, F6AG7, F6AK6, F6AK7, F6AL5, F6AL6, F6AL7, F6AL8, F6AL9, F6AM0, F6AM1, F6AM2, F6AM3, F6AM4, F6AM5, SBLK4D, SBLK4T

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DMC/Surrogate

DMC/Surrogate	VOA_Low_Med
VDSS5	The following volatile samples have DMC/SMC recoveries below the expanded lower limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are qualified R.
	F6AG7
	1,2-Dichloropropane-d6 F6AG7
	1,2-Dichloropropane, Bromodichloromethane, Cyclohexane, Methylcyclohexane

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DMC/Surrogate

DMC/Surrogate	BNA
BDSS14	The following semivolatile samples have deuterated monitoring compound recovery above the upper limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are not qualified.
	F6AG4, F6AG7
	4-Chloroaniline-d4 F6AG4, F6AG7
	3,3'-Dichlorobenzidine, 4-Chloroaniline, Hexachlorocyclopentadiene
DMC/Surrogate	BNA
BDSS15	The following semivolatile samples have deuterated monitoring compound recovery below the lower limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F6AG2, F6AG6
	Dimethylphthalate-d6 F6AG2, F6AG6
	1,1'-Biphenyl, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Caprolactam, Di-n-butylphthalate, Di-n-octylphthalate, Diethylphthalate, Dimethylphthalate

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DMC/Surrogate

DMC/Surrogate	Pest
PDSS3	The following undiluted pesticide samples have surrogate percent recoveries of less than 10%. Detected compounds are qualified J. Nondetected compounds are qualified R.
	F6AG4, F6AG7
	Tetrachloro-m-xylene F6AG4, F6AG7
	4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Aldrin, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Endrin ketone, Heptachlor, Heptachlor epoxide, Methoxychlor, Toxaphene, alpha-BHC, alpha-Chlordane, beta-BHC, delta-BHC, gamma-BHC (Lindane), gamma-Chlordane
DMC/Surrogate	Pest
PDSS5	The following pesticide samples have surrogate percent recoveries outside the lower limit of the criteria window, but greater than 10%. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F6AG6
	Tetrachloro-m-xylene F6AG6
	4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Aldrin, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Endrin ketone, Heptachlor, Heptachlor epoxide, Methoxychlor, Toxaphene, alpha-BHC, alpha-Chlordane, beta-BHC, delta-BHC, gamma-BHC (Lindane), gamma-Chlordane

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Data Review Reports

Detection Limit

Detection Limit	VOA_Low_Med
VDL1	The following volatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F6AG3, F6AG4, F6AG5, F6AG7, F6AL5, F6AL7, F6AM2, F6AM3, F6AM4
	Cyclohexane F6AG4, F6AG5, F6AG7
	Toluene F6AG3
	2-Butanone F6AL5, F6AL7, F6AM3, F6AM4
	Acetone F6AM2
	Ethylbenzene F6AG3
	Benzene F6AG4, F6AG5

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Detection Limit

Detection Limit	BNA
BDL1	The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified. F6AF4, F6AG2, F6AG3, F6AG4, F6AG4DL, F6AG5, F6AG5DL, F6AG6, F6AG7, F6AG7DL, F6AK6, F6AK7, F6AL5, F6AL6, F6AL7, F6AL8, F6AL9, F6AM0, F6AM1, F6AM2, F6AM3, SBLK4D, SBLK4T
	Benzo(k)fluoranthene F6AM2
	Anthracene F6AG2, F6AG3, F6AG5, F6AG6
	Fluoranthene F6AK6, F6AM2
	Fluorene F6AG4DL, F6AG5DL, F6AG6, F6AG7DL
	Benzo(g,h,i)perylene F6AM2
	Naphthalene F6AG2, F6AG6, F6AK6
	Pyrene F6AG3, F6AG4, F6AG5, F6AG6, F6AK6, F6AM2
	Indeno(1,2,3-cd)pyrene F6AG2, F6AM2
	Benzo(a)anthracene F6AK6, F6AM2
	Di-n-butylphthalate F6AF4, F6AG6, F6AK6, F6AK7, F6AL5, F6AL6, F6AL7, F6AL8, F6AL9, F6AM0, F6AM1, F6AM2, F6AM3
	Chrysene F6AG2, F6AK6, F6AM2
	Butylbenzylphthalate F6AL8
	Phenanthrene F6AG2, F6AG3, F6AG7DL, F6AK6, F6AL7, F6AM2
	1,1'-Biphenyl F6AG4DL, F6AG5DL, F6AG7DL
	Acenaphthene F6AG5DL
	Benzo(b)fluoranthene F6AK6, F6AM2
	Dibenzofuran F6AG4DL, F6AG5DL, F6AG7DL
	Benzo(a)pyrene F6AG2, F6AK6, F6AM2
	2-Methylnaphthalene F6AG2
	Acetophenone F6AF4, F6AG2, F6AG3, F6AL8
	Bis(2-ethylhexyl)phthalate F6AF4, F6AG4, F6AG5, F6AG6, F6AG7, F6AM2, SBLK4D, SBLK4T

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Data Review Reports

Detection Limit

Detection Limit	Pest
PDL1	The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F6AG2, F6AG7, PLCS5Q
	4,4'-DDE PLCS5Q
	Endosulfan sulfate PLCS5Q
	gamma-Chlordane F6AG2, F6AG7, PLCS5Q
	gamma-BHC (Lindane) PLCS5Q
	Dieldrin PLCS5Q
	Endrin PLCS5Q
	Heptachlor epoxide PLCS5Q
Detection Limit	Pest
PDL3	The percent difference between analyte results for the following pesticide samples is greater than 25%. Detected and nondetected compounds are not qualified.
	F6AG2, F6AG4, F6AG7
	gamma-Chlordane F6AG2, F6AG4, F6AG7

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Detection Limit

Detection Limit	Aroclor
ADL1	The following aroclor samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F6AG2, F6AM2
	Aroclor-1260 F6AG2, F6AM2
Detection Limit	Aroclor
ADL3	The relative percent difference between analyte results for the following aroclor samples is greater than 25%. Detected and nondetected compounds are not qualified.
	F6AM2
	Aroclor-1260 F6AM2

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Data Review ReportsHolding Times

Holding Times	BNA
BHT6	The following semivolatile soil samples are outside primary extraction holding time criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	F6AG5, F6AG7, F6AG4, F6AG4DL, F6AG5DL, F6AG7DL

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Data Review Reports

Initial Calibration

Initial Calibration	VOA_Low_Med
VC15	The following volatile samples are associated with an initial calibration with relative response factors (RRFs) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R. F6AF4, F6AG2, F6AG3, F6AG4, F6AG5, F6AG6, F6AG7, F6AK6, F6AK7, F6AL5, F6AL6, F6AL7, F6AL8, F6AL9, F6AM0, F6AM1, F6AM2, F6AM3, F6AM4, F6AM5, VBLK5Y, VBLKH5, VBLKJ5, VBLKL5, VBLKP5, VHBLKP5
	1,4-Dioxane VSTD0055W, VSTD005D5, VSTD005W5, VSTD0105W, VSTD010D5, VSTD010W5, VSTD0505W, VSTD050D5, VSTD050W5, VSTD1005W, VSTD100D5, VSTD100W5, VSTD2005W, VSTD200D5, VSTD200W5
	F6AF4, F6AG2, F6AG3, F6AG4, F6AG5, F6AG6, F6AG7, F6AK6, F6AK7, F6AL5, F6AL6, F6AL7, F6AL8, F6AL9, F6AM0, F6AM1, F6AM2, F6AM3, F6AM4, F6AM5, VBLK5Y, VBLKH5, VBLKJ5, VBLKL5, VBLKP5, VHBLKP5
Initial Calibration	VOA_Low_Med
VC19	The following volatile samples are associated with an initial calibration in which a DMC exceeded percent relative standard deviation (%RSD) criteria. Detected and nondetected compounds are not qualified. F6AF4, VBLK5Y
	1,1-Dichloroethene-d2 VSTD0055W
	F6AF4, VBLK5Y
Initial Calibration	VOA_Low_Med
VC20	The following volatile samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRF) criteria. Detected and nondetected compounds are not qualified. F6AF4, F6AG2, F6AG3, F6AG4, F6AG5, F6AG6, F6AG7, F6AK6, F6AK7, F6AL5, F6AL6, F6AL7, F6AL8, F6AL9, F6AM0, F6AM1, F6AM2, F6AM3, F6AM4, F6AM5, VBLK5Y, VBLKH5, VBLKJ5, VBLKL5, VBLKP5, VHBLKP5
	1,4-Dioxane-d8 VSTD0055W, VSTD005D5, VSTD005W5, VSTD0105W, VSTD010D5, VSTD010W5, VSTD0505W, VSTD050D5, VSTD050W5, VSTD1005W, VSTD100D5, VSTD100W5, VSTD2005W, VSTD200D5, VSTD200W5
	F6AF4, F6AG2, F6AG3, F6AG4, F6AG5, F6AG6, F6AG7, F6AK6, F6AK7, F6AL5, F6AL6, F6AL7, F6AL8, F6AL9, F6AM0, F6AM1, F6AM2, F6AM3, F6AM4, F6AM5, VBLK5Y, VBLKH5, VBLKJ5, VBLKL5, VBLKP5, VHBLKP5

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Initial Calibration

Initial Calibration	BNA
BC5	The following semivolatle samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. Detected compounds are qualified J. Nondetected compounds are not qualified. Use professional judgement to qualify non-detected compounds.
	F6AF4, F6AG2, F6AG3
	2-Methylphenol SSTD0204V
	F6AF4, F6AG2, F6AG3

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Internal Standard

Internal Standard	BNA
BIS2	The following semivolatle samples have internal standard area counts that are outside the upper limit of primary criteria. Detected compounds are qualified J. Nondetected compounds are not qualified.
	F6AG4
	Phenanthrene-d10 F6AG4
	4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, Anthracene, Atrazine, Carbazole, Di-n-butylphthalate, Fluoranthene, Hexachlorobenzene, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene

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Data Review Reports

TIC

TIC	VOA_Low_Med
VTIC1	A library search indicates a match at or above 85% for a TIC compound in the volatile sample. Detected compounds are qualified NJ. Nondetected compounds are not qualified.
	F6AG3, F6AG4, F6AG5, F6AG6, F6AG7, VBLK5Y
	Adamantane, 1,3-dimethyl- F6AG3
	1H-Indene, 2,3-dihydro-1,3-dimethyl- F6AG6
	Naphthalene, 1-ethyl- F6AG6
	Benzene, 1-ethyl-2-methyl- F6AG5, F6AG7
	1H-Indene, 2,3-dihydro-4-methyl- F6AG6
	Benzene, 1-methyl-4-(1-methylpropyl)- F6AG6
	1H-Indene, 2,3-dihydro-1,6-dimethyl- F6AG5, F6AG6
	.alpha.,.beta.,.beta.-Trimethylstyrene F6AG4
	Benzene, 1,3,5-trimethyl- F6AG3, F6AG4, F6AG5, F6AG7
	1H-Indene, 2,3-dihydro-5,6-dimethyl- F6AG6
	Benzene, 2-ethyl-1,4-dimethyl- F6AG4, F6AG5, F6AG7
	Naphthalene, 1,2,3,4-tetrahydro- F6AG4, F6AG5, F6AG7
	Benzene, 1-ethyl-3-methyl- F6AG4, F6AG7
	Naphthalene, 1,2,3,4-tetrahydro-5-methyl F6AG5
	Naphthalene, 1-methyl- F6AG3, F6AG4, F6AG5, F6AG6, F6AG7
	Naphthalene, 2-ethyl- F6AG4
	Benzene, 1,2,3,4-tetramethyl- F6AG7
	Naphthalene, 1,3-dimethyl- F6AG4
	Benzene, 1,2-diethyl- F6AG6
	Benzene, 1,2,3-trimethyl- F6AG3, F6AG4, F6AG5, F6AG7
	Benzene, 1,2,4,5-tetramethyl- F6AG4, F6AG5, F6AG6, F6AG7
	Benzene, 1,2,4-trimethyl- F6AG4, F6AG5, F6AG7
	Naphthalene, 2,6-dimethyl- F6AG4, VBLK5Y
	1-Phenyl-1-butene F6AG5, F6AG7
	Benzene, 1-methyl-3-propyl- F6AG4, F6AG5, F6AG7

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TIC

TIC	VOA_Low_Med
	Benzene, cyclohexyl- F6AG4, F6AG5
	Benzene, 2-ethyl-1,3-dimethyl- F6AG3
	Benzene, 1,3-diethyl-5-methyl- F6AG7
	Benzene, 1-ethyl-3,5-dimethyl- F6AG7
	Naphthalene, decahydro-2-methyl- F6AG4
	Benzene, 1-ethyl-2,4-dimethyl- F6AG6
	Benzene, 1-methyl-3-(1-methylethyl)- F6AG4
	Benzene, (1-methyl-1-propenyl)-, (Z)- F6AG4
	1H-Indene, 2,3-dihydro-4,7-dimethyl- F6AG3, F6AG5, F6AG6, F6AG7
	Benzene, 1-ethenyl-3-ethyl- F6AG4, F6AG6
	1H-Indene, 2,3-dihydro-1,2-dimethyl- F6AG4, F6AG5, F6AG6, F6AG7
	Benzene, (1-methyl-1-propenyl)-, (E)- F6AG6
	1-Methyldecahydronaphthalene F6AG3
	trans-Decalin, 2-methyl- F6AG5, F6AG7
	1H-Indene, 2,3-dihydro-1,1,3-trimethyl- F6AG3
	Benzene, 1,2,3,5-tetramethyl- F6AG4, F6AG5
TIC	VOA_Low_Med
VTIC2	A library search indicates a match below 85% for a TIC compound in the volatile sample. Detected compounds are qualified J. Nondetected compounds are not qualified. F6AG3, F6AG4, F6AG5, F6AG6, F6AG7
	Unknown-09 F6AG3, F6AG5, F6AG6, F6AG7
	Unknown-16 F6AG3
	Unknown-07 F6AG3, F6AG4, F6AG5, F6AG6, F6AG7
	Unknown-17 F6AG3
	Unknown-08 F6AG3, F6AG4, F6AG5, F6AG6, F6AG7
	Unknown-18 F6AG3
	Unknown-05 F6AG3, F6AG4, F6AG5, F6AG6, F6AG7
	Unknown-19 F6AG3

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TIC

TIC	VOA_Low_Med
Unknown-06	F6AG3, F6AG4, F6AG5, F6AG6, F6AG7
Unknown-21	F6AG3
Unknown-03	F6AG3, F6AG4, F6AG5, F6AG6, F6AG7
Unknown-12	F6AG3
Unknown-13	F6AG3
Unknown-04	F6AG3, F6AG4, F6AG5, F6AG6, F6AG7
Unknown-22	F6AG3
Unknown-01	F6AG3, F6AG4, F6AG5, F6AG6, F6AG7
Unknown-14	F6AG3
Unknown-02	F6AG3, F6AG4, F6AG5, F6AG6, F6AG7
Unknown-15	F6AG3
Unknown-20	F6AG3
Unknown-10	F6AG3, F6AG5
Unknown-11	F6AG3

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Data Review Reports

TIC

TIC	BNA
BTIC1	A library search indicates a match at or above 85% for a TIC compound in the semivolatle sample. Detected compounds are qualified NJ. Nondetected compounds are not qualified.
	F6AG3, F6AG4, F6AG4DL, F6AG5, F6AG5DL, F6AG6, F6AG7, F6AG7DL, F6AK6, F6AK7, F6AM0, F6AM3, F6AM4
	Naphthalene, 1-ethyl- F6AG5DL, F6AG7DL
	Anthracene, 1-methyl- F6AG7DL
	13-Docosenamide, (Z)- F6AM0
	1,4-Methanonaphthalene, 1,4-dihydro- F6AG6
	Naphthalene, 2,3-dimethyl- F6AG6, F6AG7DL
	2,6,10,14,18,22-Tetracosahexaene, 2,6,10 F6AK7
	Azulene, 4,6,8-trimethyl- F6AG6, F6AG7
	Naphthalene, 1,6-dimethyl- F6AG4DL, F6AG5, F6AG5DL
	Naphtho[2,3-b]norbornadiene F6AG4
	Naphthalene, 2-(1-methylethyl)- F6AG5, F6AG7
	Naphthalene, 1-methyl- F6AG4, F6AG4DL, F6AG5, F6AG7, F6AG7DL, F6AK6
	Naphthalene, 1,4,5-trimethyl- F6AG5, F6AG7
	Naphthalene, 1,4-dimethyl- F6AG4DL
	Naphthalene, 2,6-dimethyl- F6AG4, F6AG6
	Naphthalene, 1,4,6-trimethyl- F6AG4DL, F6AG5, F6AG6
	Azulene, 7-ethyl-1,4-dimethyl- F6AG6
	Naphthalene, 2,7-dimethyl- F6AG4, F6AG6, F6AG7DL
	9-Octadecenamide, (Z)- F6AM4
	Naphthalene, 1,8-dimethyl- F6AG6
	9(1H)-Phenanthrene, 2,3,4,4a,10,10a-he F6AM3
	di-p-Tolylacetylene F6AG5
	Benzene, 1-ethyl-2,4-dimethyl- F6AG7
	Phenanthrene, 1-methyl- F6AG4
	Decahydro-4,4,8,9,10-pentamethylnaphthal F6AG5DL
	9H-Fluorene, 1-methyl- F6AG4DL

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Data Review Reports

TIC

TIC	BNA
	Naphthalene, 2,3,6-trimethyl- F6AG3, F6AG4, F6AG7DL
	1H-Indene, 1-ethylidene- F6AG5DL
	1-Methyldecahydronaphthalene F6AG7DL
	Benzene, 4-ethyl-1,2-dimethyl- F6AG3
	2-Bromo dodecane F6AG4DL, F6AG7DL
	Naphthalene, 1,6,7-trimethyl- F6AG5DL, F6AG7, F6AK6
	Naphthalene, 1,2-dimethyl- F6AG5DL